

Interactive comment on “Gap filling and noise reduction of unevenly sampled data by means of the Lomb-Scargle periodogram” by K. Hocke and N. Kämpfer

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Summary

The comments of the reviewers were very helpful in order to identify the main working tasks for improvement and optimization of our study:

- 1) Address the limitations and errors of the gap filling method, e.g., influences due to data gap distribution and non-stationary components of the data series. These investigations lead to a better application of the new method.
- 2) Search for ideas how the false spectral components (e.g., arising from data gaps) can be separated from the true spectral components.

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3) Emphasize the importance of 'gap filling' for climate change studies where mean states of atmospheric and oceanic parameters are analyzed.

For the revision, we work on these issues and hope that we make a considerable progress. Thank you again for your advises and encouragements,

Klemens Hocke

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 4603, 2008.

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